

Weekly Report

15/11/2018 – 25/11/2018

The last weeks I have learned about sentiment analysis via Youtube series, and I found the "SentimentVis Browser [1]" <http://sentimentvis.lnu.se/> in the same page that I found last time about "Text Visualization Browser." This week I will try to figure out my visualization technique from the sentiment visualization techniques that including the web page.

Back to the Youtube series, it is a video teaching about how to program python with NLTK, which is an API used for natural language processing. I want to extract the functional and non-functional requirements from users who use software and leave their comments on social medias such as Twitter, which is a novel way for gathering software requirements from the real users, instead of the traditional requirements engineering.

There is much using NLP and Twitter in various fields; however, I just found a research paper that talks about NLP, Twitter, and Software engineering field [2] but it is not the same what I want to do and it quite less to talks about visualization. This week I will deeply search about NLP, social media, requirements engineering and certainly including visualization.

One more thing, I talked with my Chinese friend who I met in the event that two deans from a university in Thailand visited our lab. She is studying in linguistics and English translations at Zhejiang university, but she is interested in data science that can apply to her field, and now she learns to program by herself with R for NLP. I think the NLP for gathering the real requirements from the actual users who post in social media may need knowledge in linguistics for helping. Anyhow, I will try to figure out my project first and think twice about how to gather the requirements as the requirements engineer do, if it possible may need the linguistics knowledge, may I ask her to meet you next.

[1] Kucher, K., Paradis, C., & Kerren, A. (2018, February). The state of the art in sentiment visualization. In Computer Graphics Forum (Vol. 37, No. 1, pp. 71-96).

[2] Williams, G., & Mahmoud, A. (2017, September). Mining Twitter feeds for software user requirements. In 2017 IEEE 25th International Requirements Engineering Conference (RE) (pp. 1-10). IEEE.